WHAT IS CLAIMED IS:

- 2 1. A monoclonal antibody for detecting urinary trypsin inhibitors in the biological fluids of persons having disease, said antibody comprising an antibody
- 4 combining site which binds preferentially to at least one member of the group of urinary trypsin inhibitors (UTI) consisting of AMBK, Bikunin, Uristatin, Uristatin-1, Uristatin-2
- 6 and fragments and aggregates thereof.

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- 2. A monoclonal antibody of Claim 1 wherein said UTIs are Uristatin and Uristatin-1 and -2.
- 3. A monoclonal antibody of Claim 1 wherein said monoclonal antibody is secreted by hybridoma ATCC 421-5G8.1A8.5C1.
- 4. A monoclonal antibody of Claim 1 wherein said UTIs are Uristatin and
 Uristatin-1 and -2 and said monoclonal antibody further binds to Tamm-Horsfall protein
 (THF).
- 5. A monoclonal antibody of Claim 4 wherein said monoclonal antibody is secreted by hybridoma ATCC 420-5D11.5G8.1E4.
- 6. A monoclonal antibody of Claim 1, wherein said monoclonal antibody binds preferentially to the UTIs AMBK, Bikunin, Uristatin, and Uristatin 1 and 2 and also to THP.
 - 7. A monoclonal antibody of Claim 6 wherein said monoclonal antibody is secreted by hybrioma ATCC 421-3G5.4C5.3B6.
- 8. A monoclonal antibody of Claim 1 for detecting UTI wherein said biological fluid is urine.
- 9. A monoclonal antibody of Claim 1 for detecting UTI wherein said biological fluid is blood.
- 10. A method of assaying a biological fluid for urinary trypsin inhibitors
 (UTI) comprising contacting a sample of biological fluid with at least one monoclonal antibody capable of binding to urinary trypsin inhibitors characterizing said biological
 fluid of persons having disease and identifying the bound UTIs.
- 11. A method of Claim 10 wherein said urinary trypsin inhibitors

 characterizing the urine of persons having disease are members of the group consisting of AMBK, Bikunin, Uristatin, Uristatin-1, Uristatin-2, and fragments and aggregates thereof.

- 12. A method of Claim 11 wherein said monoclonal antibody binds
- 2 preferentially to the UTIs Uristatin, Uristatin-1 and -2, and also to Tamm-Horsfall protein (THP).
- 4 13. A method of Claim 12 wherein said monoclonal antibody binds preferentially to the UTIs Uristatin and Uristatin-1 and -2.
- 6 14. A method of Claim 11 wherein said monoclonal antibody binds to the UTIs AMBK, Bikunin, Uristatin, and Uristatin-1 and -2 and also to THP.
- 8 15. A method of Claim 12 wherein said monoclonal antibody is secreted by hybridoma ATCC 420-5D11.5G8.1E4.
- 16. A method of Claim 13 wherein said monoclonal antibody is secreted by hybridoma ATCC 421-5G8.1A8.5C1.
- 17. A method of Claim 14 wherein said monoclonal antibody is secreted by hybridoma ATCC 421-3G5.4C5.3B6.
- 14 18. A method of Claim 10 wherein said UTIs are identified in an immunoassay.
- 19. A method of Claim 18 wherein said immunoassay is selected from the group consisting of MR, LAI, IC, RIA, ELISA, EIA, FIA, LIA, CLA, OA, and rare earth metals label assays, as defined herein.
 - 20. A method of Claim 10 wherein said biological fluid is urine.
- 20 21. A method of Claim 10 wherein said biological fluid is blood.
 - 22. A method of Claim 10 wherein a UTI is measured directly by a monoclonal antibody.
 - 23. A method of Claim 10 wherein all UTIs are measured by a first
- 24 monoclonal antibody and specific UTIs measured by a second antibody are subtracted from the UTIs measured by the first antibody to measure the UTIs found by first
- antibody but not by the second antibody.
- 24. A method of Claim 22 wherein said antibody measures Uristatin-1 and/or
- 28 Uristatin-2.

- 25. A method of Claim 22 wherein said antibody measures all UTIs but not the pro-inhibitors.
- 26. A method of Claim 23 wherein said first antibody measures Uristatin-1 and/or Uristatin-2 and said second antibody measures all UTIs and Bikunin and AMBK are measured by difference.

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- 27. A method of Claim 23 wherein said first antibody measures all
 UTIs and THP and said second antibody measures THP and UTIs are measured by difference.
- 4 28. A method of assaying a biological fluid for urinary trypsin inhibitors (UTI) comprising the steps of:
- 6 (a) adding a biological fluid sample suspected of containing urinary trypsin inhibitors to a substrate;
- (b) adding to said sample of (a) monoclonal antibodies capable of
 binding to urinary trypsin inhibitors characterizing the biological fluid of humans having
 disease;
- (c) adding to the combined monoclonal antibodies of (b) and the urine sample of (a) a ligand capable of binding to said monoclonal antibodies, said ligands being bound to an enzyme;
- 14 (d) washing from the combined monoclonal antibodies of (b), the biological fluid sample of (a) and the ligand of (c) the portion of said ligand unbound to said monoclonal antibodies;
- (e) determining the amount of said urinary trypsin inhibitors bound to
 said monoclonal antibodies and said ligands by adding a reporter molecule capable of developing a signal by reaction with said enzyme and correlating the signal developed
 with the amount of said urinary trypsin inhibitors.
 - 29. A method of Claim 28 wherein said urinary trypsin inhibitors characterizing the biological fluid of persons having disease comprise at least one member of the group consisting of AMBK, Bikunin, Uristatin, Uristatin-1, Uristatin-2 and fragments and aggregates thereof.

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- 30. A method of Claim 29 wherein said monoclonal antibody binds
 preferentially to the UTIs Uristatin, Uristatin-1 and -2, and also to Tamm-Horsfall
 protein (THP).
- 28 31. A method of Claim 29 wherein said monoclonal antibody binds preferentially to Uristatin and Uristatin-1 and -2.
- 32. A method of Claim 29 wherein said monoclonal antibody binds preferentially to the UTIs AMBK, Bikunin, Uristatin, and Uristatin-1 and -2 and also to THP.

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- 33. A method of Claim 30 wherein said monoclonal antibody is secreted by hybridoma ATCC 420-5D11.5G8.1E4.
- 34. A method of Claim 31 wherein said monoclonal antibody is secreted by hybridoma ATCC 420-5G8.1A8.5C1.
- 35. A method of Claim 32 wherein said monoclonal antibody is secreted by hybridoma ATCC 421-3G5.4C5.3B6.
 - 36. A method of Claim 28 wherein said biological fluid is urine.
- 8 37. A method of Claim 28 wherein said biological fluid is blood.
- 38. A method of Claim 28 wherein a UTI is measured directly by a monoclonal antibody.
- 39. A method of Claim 28 wherein all UTIs are measured by a first
 monoclonal antibody and specific UTIs measured by a second antibody are subtracted from the UTIs measured by the first antibody to measure to UTIs found by the first
 antibody but not by the second antibody.
- 40. A method of Claim 38 wherein said antibody measures Uristatin-1 and/or Uristatin-2.
- 41. A method of Claim 38 wherein said antibody measures all UTIs but not the proinhibitors.
- 42. A method of Claim 39 wherein said first antibody measures Uristatin-1 and/or Uristatin-2 and said second antibody measures all UTIs and Bikunin and AMBK are measured by difference.
- 43. A method of Claim 39 wherein said first antibody measures all UTIs and THP and said second antibody measures THP and UTIs are measured by difference.